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NOTES ON GEOLOGY AND MINERALOGY.

BY JOHN EYERMAN.

Fossil Foot-prints from the Jura (?)-*Trias of New Jersey.*—The specimens to be described were collected two years ago at the quarries of the Messrs. Clark, near Milford, Hunterdon Co., and after making brief descriptions and drawings of the more interesting specimens, they were immediately forwarded to the Museum of Comparative Zoölogy, at Cambridge. No less than two hundred specimens were collected; many of them, however, were too indistinct to be determined.

The following tracks have been accurately determined:

The grouping is after Hitchcock.

PACHYDACTYLOUS GROUP.

Genus I. BRONTOZOUM.

B. isodactylum. (Hitchcock.)

Two feet of three toes each. Length of foot 4 to 5 inches. Step 5 to 6 inches. The predominant species at this locality. On gray sand-stone.

Genus III. GRALLATOR.

G. cuneatus. (Hitchcock.)

Two feet of three toes each. Length of foot 4 to 5 inches. Step 22 to 24 inches. On gray sand-stone.

G. tenuis. (Hitchcock.)

Two feet of three toes each. Length of foot 2 to 3 inches. Step 9 inches. On gray sand-stone.

MARSUPIALOID GROUP.

Genus II. ANOMŒPUS.

A. minor.

Two hind-feet of three toes each and two fore-feet of five toes each. Length of hind-foot 8½ inches; of heel 4 inches. Step 9 inches. This track was first observed by Dr. T. C. Porter, in the quarry of Smith Clark, about a half mile west of the quarry which furnished the above (*Brontozoum and Grallator.*) The track is on the red shale, and is rather indistinct. No other tracks have been found at this locality.

Tracks of Invertebrates.

Harpagopus dubius Hitchcock.

Two toes. Length of foot 2¼ inches.

Tracks of Annelids. Hitchcock.

Unisulcus Marshi Hitchcock.

This track forms a beautiful loop; the groove is about ¼ inch wide.

Unisulcus minutus.

This track is about 1/16 inch wide.

Jura (?)-Trias flora, from Milford.

Only two specimens have been obtained; both undoubtedly *Clathropteris platyphylla* (Saporta.)

Some New Pennsylvania and New Jersey Mineral Localities :—

Calamine occurs in stalactitic, botryoidal and granular massive forms, coating limonite on the farm of S. D. Von Steuben, near Dryland Station, Northampton Co. It resembles the Friedensville calamine

Friedensville Calamine :—An analysis of this calamine from the Ueberroth mine made several years ago, afforded me

SiO_2	24·32
Fe_2O_3	2·12
H_2O	7·86
ZnO	65·05
	99·35

I believe this to be the first recorded analysis of calamine from this well-known locality.

Molybdenite occurs in thin plates incrusting quartz, at Marble Hill, in Warren Co., N. J., opposite Easton.

Graphite also occurs at the same locality incrusting granite.

Malachite occurs at Flint Hill, near Bingen, Northampton Co., in light-green masses associated with quartz, and incrusting the Mesozoic conglomerate it is found near Leithsville.

It is also found at the sand-stone quarry of the Messrs. Clark, near Milford, N. J.

Chalcocite.—Several years ago I observed a single specimen of chalcocite in quartz at the Ecton whim shaft near Shannonville, Montgomery Co.

Aragonite occurs at Sherrer's quarry on the Delaware river road, about a mile above Easton, in beautiful snow-white masses, associated with serpentine; also in silky fibers.

Quartz.—Perfect quartz crystals (one of which is 3½ inches in leugth) have been found at the "Court House lot" Easton, and in large groups at Flint Hill, near Bingen, Northampton Co.

Pyrite from St. Peter's, Chester Co.—I have observed the following forms and planes of pyrite from this well-known locality:

$O\ (H),\ 3\tfrac{3}{2},\ 1,\ 2\text{-}2,\ i,\ i\text{-}2.$
2 and some combinations as follows:
$1 \wedge i\text{-}2 \qquad O \wedge 2$
$O \wedge i\text{-}2 \qquad O \wedge 3\tfrac{3}{2}$
$(O)\ H \wedge 1 \qquad \tfrac{1}{2}\ (i \times 2)$

Melaconite aud Malachite have been obtained at Franklintown, Adams Co.

Apophyllite from St. Peter's.

One perfect crystal in my possession measures ½ in.+½ in. The form is O. 1. *i-i.* Other planes observed are I. *i*-2. *i.-i.* O. 1. An analysis made in June afforded me

SiO_2	51·63
CaO	25·42
K_2O	6·25
H_2O	16·58
	99·90

Sp. qr. 2.35.

A complete and revised list of the minerals occurring at this locality is here annexed. * Indicates occurrence in small quantities.

Stilbite* apophyllite, aragonite, pyroxene (massive and in crystals) pyrite (many forms) chalcopyrite, chrysocolla* malachite* calcite (and Iceland spar) byssolite* byssolitic calcite, melanite, actolitein magnetite (massive and in crystals) serpentine, crythrite*, pyrallolite, glauconite, orthoclase (radiated) bornite.*

New Minerals from Cornwall, Lebanon Co.—I have been able to identify the following new minerals, all of which occur on the "Big Hill":—

Neolite.—In radiated masses of grayish-white color.

Chrysolite.—Small crystals of brown color associated with magnetite.

Andradite.—Small crystals of brownish-red color imbedded in quartzose rock.

Lepidolite.—A small quantity of this mineral was found as an incrustation upon quartz.

Analcite.—This interesting species was found in cavities in the magnetite. This mineral and lepidolite are new minerals for Pennsylvania.

Chloropal and Repidolite are found in considerable quantities.